

ABSTRACT OF THE DISCLOSURE

Calculation of an offset value is permitted when a current value detected by an ammeter of a magnetic flux detection type is switched from a negative value to a positive value, or from a positive value to a negative value, and also a state where an absolute value of the current value is within a predetermined range is continued for a predetermined time. When calculation of the offset value is permitted, the fact that an ignition switch is turned OFF is detected, and the current value detected by the ammeter is calculated as the offset value.